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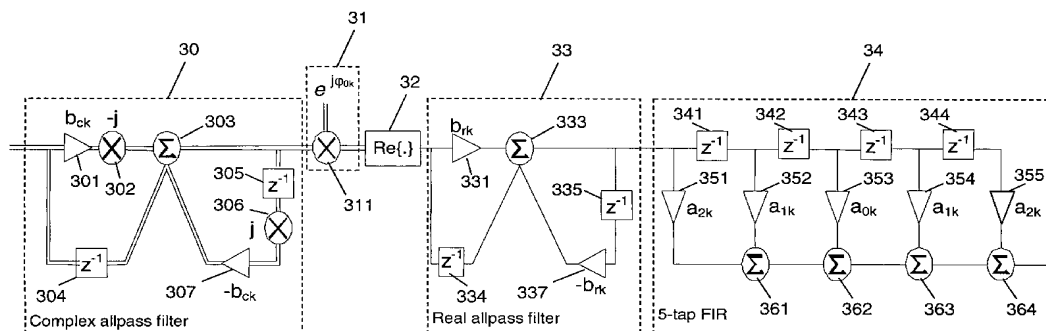
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(54) Title: CHANNEL EQUALIZATION



(57) **Abstract:** The invention relates to a method for use in an equalization of a channel by means of an equalizer (22, 23), wherein the channel uses a certain frequency band for a transfer of signals. In order to enable a channel equalization which requires a low complexity and which provides at the same time a good performance, it is proposed that the method comprises determining a channel response for at least one frequency point within the frequency band used by the channel. The method further comprises setting at least one adjustable coefficient  $\phi_{0k}$ ,  $b_{ck}$ ,  $b_{rk}$ ,  $a_{0k}$ ,  $a_{1k}$ ,  $a_{2k}$  of the equalizer such that an equalizer response compensates optimally the determined channel response at the at least one selected frequency point. The invention relates equally to a corresponding signal processing device (2), to a corresponding signal processing system and to a corresponding software program product.

WO 2005/091583 A1